

SAFETY DATA SHEET

TOLYLTRIAZOLE



Version 3.1

Revision Date 05/11/2017

Print Date 05/12/2017

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : TOLYLTRIAZOLE

Other means of Identification : 10863

Recommended use : Component of lubricant or fuel additives

Restrictions on use : This material should not be used for any other purpose than that recommended without expert advice.

Manufacturer or supplier's details : INFINEUM USA L.P.
P.O. Box CN 135
Linden, NJ. 07036 USA

E-mail address for further information : SDS@infineum.com

Website for further information : <http://www.infineum.com>

Emergency telephone number : 703-527-3887 (international & maritime)
800-424-9300 (Transportation emergencies in the USA & Canada)

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical in accordance with paragraph (d) of §1910.1200

This material is considered to be hazardous according to regulations.

GHS-Classification

Acute toxicity (Oral) : Category 4

Hazard statements:

H302: Harmful if swallowed.

GHS Label elements, including precautionary statements

Pictogram:



Signal word: Warning

Hazard statements:

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H302: Harmful if swallowed.

Precautionary statements:

Prevention

P264: Wash skin thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

Response

P301 + P312 + P330: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
Rinse mouth.

Disposal

P501: Dispose of contents/ container to an approved waste disposal plant.

Contains: Tolyltriazole

Other hazards which do not result in classification

This substance is not considered to be persistent, bioaccumulating and toxic (PBT).
This substance is not considered to be very persistent and very bioaccumulating (vPvB).

HMIS Classification : Health: 1
Flammability: 1
Physical hazards: 0

NFPA Classification : Health: 1
Flammability: 1
Instability: 0

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Name	CAS number or other code	Concentration [%]
Tolyltriazole	29385-43-1	>= 90 - <= 100

All concentrations are weight percent units for liquids or volume percent units for gaseous products.

Other ingredients are either not hazardous or are below the regulatory disclosure limit..

As per paragraph (i) of 29 CFR 1910.1200, formulation is considered a trade secret and specific chemical identity and exact percentage (concentration) of composition may have been withheld. Specific chemical identity and exact percentage composition will be provided to health professionals, employees, or designated representatives in accordance with applicable provisions of paragraph (i).

SECTION 4. FIRST AID MEASURES**Description of first aid measures**

- General advice** : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
- If inhaled** : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of skin contact** : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
If symptoms persist, call a physician.
- In case of eye contact** : Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists: Get medical advice/ attention.
- If swallowed** : Clean mouth with water and drink afterwards plenty of water.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
Obtain medical attention.

Most important symptoms and effects, both acute and delayed

- Symptoms : No symptoms known or expected.

Indication of any immediate medical attention and special treatment needed

- Treatment : Show this safety data sheet to the doctor in attendance.
The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.
If a person vomits when lying on his back, place him in the recovery position.
Keep patient warm and at rest.

- Protection of first-aiders** : For personal protection see section 8.

SECTION 5. FIREFIGHTING MEASURES**Extinguishing media**

- Suitable extinguishing media** : Use water fog, foam, dry chemical or carbon dioxide (CO₂) to extinguish flames

Unsuitable extinguishing media : High volume water jet

Specific hazards arising from the chemical

Combustibility : Not classified as flammable or combustible, but will combust if ignited.

Hazardous combustion products : Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

Nitrogen oxides (NO_x)

Flammable properties : See Section 9 for information on flammability.

Special protective equipment and precautions for fire-fighters

Protective equipment and precautions for firefighters : In the event of fire, wear self-contained breathing apparatus. Exposure to decomposition products may be a hazard to health.

Fire Fighting Instructions : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Advice for emergency responders
Ensure adequate ventilation.
Use personal protective equipment.
Avoid dust formation.
Avoid breathing dust.
For personal protection see section 8.

Advice for non-emergency personnel
Avoid contact with spilled material. Do not touch or walk through spilled material.

Environmental precautions : Prevent entry into waterways, sewers, basements or confined areas.

Local authorities should be advised if significant spillages cannot be contained.
Do not flush into surface water or sanitary sewer system.
Prevent further leakage or spillage if safe to do so.

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Try to prevent the material from entering drains or water courses.
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up

: Prevent further leakage or spillage if safe to do so.
Scrape up with shovels into a suitable container for later disposal

Report spills as required to appropriate authorities.
Seek the advice of a specialist before using dispersants.
Dispose of according to local regulations.
In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.
Material will float on water, use containment booms as a barrier to protect shorelines.
Remove material, as much as possible, using mechanical equipment.

Pick up and arrange disposal without creating dust.
Keep in suitable, closed containers for disposal.
Clean contaminated floors and objects thoroughly while observing environmental regulations.

Reference to other sections

Other information

: For personal protection see section 8.
See section 13

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

Avoid formation of respirable particles.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Dispose of rinse water in accordance with local and national regulations.

Avoid dust formation.
Provide appropriate exhaust ventilation at places where dust is formed.

Products may load from Infineum manufacturing site above the standard loading/unloading range.

Loading/unloading temperature : No data available

Viscosity @ : No data available

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Loading/unloading
temperature

Static accumulator : This material is not a static accumulator.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

No decomposition if stored and applied as directed.

Storage temperature : $\leq 50^{\circ}\text{C}$ (122°F)

Incompatible materials and
coatings : No data available

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Exposure Limit Values**

Substance name					
Form	Limit / Standard			Note	Source
Tolyltriazole					
	TWA		10 mg/m3		ACGIH

Limits/standards shown for guidance only. Follow applicable regulations.

Occupational exposure controls

Appropriate engineering controls : No special requirements under ordinary conditions of use and with adequate ventilation.

Individual protection measures, such as personal protective equipment

Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.

Hand protection : Polyvinyl alcohol or nitrile- butyl-rubber gloves
Before removing gloves clean them with soap and water.
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles
Ensure that eyewash stations and safety showers are close to the workstation location.

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Skin and body protection : Dust impervious protective suit
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Advice on general occupational hygiene

Hygiene measures : When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and immediately after handling the product.
Remove contaminated clothing and protective equipment before entering eating areas.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Typical physical and chemical properties are given below. Consult the Supplier in Section 1 for additional data.

Information on basic physical and chemical properties

Physical state : solid
Form : granular
Colour : off-white
Odour : characteristic
Odour Threshold : not determined

Important health safety and environmental information

Relative density : not determined
Bulk density : not determined
Density : not determined
Flash point : 182 °C (360 ° F)
Method: Cleveland Open Cup (ASTM D92)
Flammability (solid, gas) : not determined
lower flammability limit : not determined
Upper flammability limit : not determined
Auto-ignition temperature : Not applicable
Initial boiling point and boiling range : Not applicable

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Vapour density (Air = 1.0)	: not determined
Vapour pressure	: < 0.1 hPa (< 0.1 mmHg) at 20 °C (68 ° F) estimated
Evaporation rate (N-butyl acetate=1)	: Not applicable
pH	: Not applicable
Partition coefficient: n-octanol/water	: not determined
Water solubility	: < 0.0001 g/l estimated
Viscosity, kinematic	: not determined
Explosive properties	: not determined
Oxidizing properties	: See sections 3, 15
Decomposition temperature	: not determined
Pour point	: not determined
Melting point/freezing point	: 76 °C (169 ° F)

Other information

DMSO extract by IP346	: Not applicable (mineral oil component only)
Coefficient of thermal expansion	: not determined

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous reactions	: Dust may form explosive mixture in air.
Conditions to avoid	: Excessive heat.
Incompatible materials	: Strong oxidizing agents
Hazardous decomposition	: No decomposition if used as directed.

products**SECTION 11. TOXICOLOGICAL INFORMATION****Information on toxicological effects****Product**

Acute oral toxicity	: No data is available on the product itself.
Acute inhalation toxicity	: No data is available on the product itself.
Acute dermal toxicity	: No data is available on the product itself.
Skin corrosion/irritation	: No data is available on the product itself.
Serious eye damage/eye irritation	: No data is available on the product itself.
Respiratory or skin sensitisation	: No data is available on the product itself.
Germ cell mutagenicity	
Genotoxicity in vitro	: No data is available on the product itself.
Genotoxicity in vivo	: No data is available on the product itself.
Carcinogenicity	: No data is available on the product itself.
Reproductive toxicity	: No data is available on the product itself.
STOT - single exposure	: Assessment: No data is available on the product itself.
STOT - repeated exposure	: Assessment: No data is available on the product itself.
Aspiration toxicity	: No data is available on the product itself.

Components:**Tolyltriazole:**

Acute oral toxicity	: LD50 Oral Rabbit: > 675 mg/kg Remarks: Harmful if swallowed.
Acute inhalation toxicity	: No data available
Acute dermal toxicity	: LD50 Dermal Rabbit: > 2,000 mg/kg Test substance: Read-across (Analogy) Remarks: Based on available data, the classification criteria are not met.
Skin corrosion/irritation	: Species: Rabbit Result: No skin irritation Method: OECD Test Guideline 404 Based on available data, the classification criteria are not met.

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Serious eye damage/eye irritation	: Not classified as an eye irritant, but may cause mild, short-lasting discomfort to the eyes.
Respiratory or skin sensitisation	: Species: Guinea pig Result: Not a skin sensitizer. Method: OECD Test Guideline 406 Based on available data, the classification criteria are not met.
Germ cell mutagenicity	
Genotoxicity in vitro	: Type: Ames test with and without metabolic activation Result: negative Method: OECD Test Guideline 471 In vitro tests did not show mutagenic effects
Genotoxicity in vivo	: (male and female)Method: OECD Test Guideline 474 GLP: yes Result: negativeBased on available data, the classification criteria are not met.
Carcinogenicity	: No significant adverse effects were reported
Reproductive toxicity	: Species: Rat Sex: male and female NOAEL: > 200 mg/kg, Method: OECD Test Guideline 421 Test substance: Read-across (Analogy) Based on available data, the classification criteria are not met.
STOT - single exposure	: Remarks: No data available
STOT - repeated exposure	: Remarks: No data available
Aspiration toxicity	: No data available

Carcinogenicity

IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

ACGIH

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Product:**

Toxicity to fish : No data is available on the product itself.

Toxicity to daphnia and other aquatic invertebrates : No data is available on the product itself.

Toxicity to algae : No data is available on the product itself.

Components:**Tolyltriazole:**

Toxicity to fish : LC50 (Fish): 21.4 mg/l
Exposure time: 96 h
Harmful to aquatic life.

Toxicity to fish (Chronic toxicity) : Toxic to aquatic life with long lasting effects.

Ecotoxicology Assessment

Acute aquatic toxicity : Harmful to aquatic life.

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

Persistence and degradability**Product:**

Biodegradability : No data is available on the product itself.

Components:**Tolyltriazole:**

Biodegradability : According to the results of tests of biodegradability this product is not readily biodegradable.

Bioaccumulative potential**Product:**

Bioaccumulation : No data is available on the product itself.

Partition coefficient: n-octanol/water : not determined

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Components:

Tolyltriazole:

Bioaccumulation : study scientifically unjustified

Mobility in soil

Product:

Mobility : No data is available on the product itself.

Components:

Tolyltriazole:

Mobility : Highly mobile in soils

Results of PBT and vPvB assessment

Product:

Assessment : No data is available on the product itself.

Components:

Tolyltriazole:

Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT)., This substance is not considered to be very persistent and very bioaccumulating (vPvB).

Other adverse effects

Product:

Additional ecological information : None known.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal recommendations based on material as supplied, Disposal must be in accordance with applicable laws and regulations, and material characteristics at time of disposal

For the safety of persons conducting disposal, recycling or reclamation activities, refer to the information in Section 8, Exposure control and personal protection.

Disposal recommendations

Product : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Dispose of contents/ container to an approved waste disposal plant.

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Empty containers.

Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

SECTION 14. TRANSPORT INFORMATION

LAND (DOT)

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Tolyltriazole)

Class	9
UN number	UN3077
Packing group	III
Labels	9
Emergency Response Guidebook Number	171
Marine pollutant	yes

SEA (IMDG)

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Tolyltriazole)

Class	9
UN number	UN3077
Packing group	III
Labels	9
EmS Number 1	0
Marine pollutant	yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remarks	Not applicable
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AIR (IATA)

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Tolyltriazole)

Class	9
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UN number	UN3077
Packing group	III
Labels	9

SECTION 15. REGULATORY INFORMATION

National chemical inventory status:

List	Status
TSCA	: Listed
DSL	: Listed
AICS	: Listed
NZIoC	: Listed
ENCS	: Listed
KECI	: Listed
PICCS	: Listed
IECSC	: Listed
EINECS	: Listed
TCSI	: Listed

To import this product into the EU your company requires registrations and/or pre-registrations for all constituent substances that are subject to REACH registration. To discuss the possibility of setting up an Only Representative agreement with Infineum, please e-mail Only.Representatives@Infineum.com

CERCLA Reportable Quantity

This material is not subject to any special reporting under the requirements of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). Contact local authorities to determine if other reporting requirements apply.

SARA 311/312 Hazards : Acute Health Hazard

EPCRA - EMERGENCY PLANNING COMMUNITY RIGHT - TO - KNOW

SARA 302 No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

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Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know

Components

Tolyltriazole

29385-43-1

New Jersey Right To Know Components

Tolyltriazole

29385-43-1

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16. OTHER INFORMATION

Revision changes since the previous version are marked in the margins throughout this document

Sources of key data used to compile the Safety Data Sheet

Canadian Controlled Products Regulations

Canadian Environmental Protection Act (CEPA)

Canadian Hazardous Products Act

Canadian National Pollutant Release Inventory (NPRI)

Canadian Transportation of Dangerous Goods (TDG)

Canadian Workplace Hazardous Material Information System (WHMIS)

US American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (exposure limits)

US California Proposition 65

US Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

US Department of Health & Human Services. National Toxicology Program

US Department of Transport DOT 49 CFR

US Hazardous Material Identification System (HMIS) III

US National Fire Protection Association (NFPA) 704

US National Institute for Occupational Safety & Health (NIOSH) (exposure limits)

US Occupational Safety & Health Administration (OSHA) 29 CFR 1910.1200 (Hazard Communication Standard)

US OSHA 29 CFR 1910.1000 - Table Z1 (exposure limits)

US State Right to Know Acts: Pennsylvania, Massachusetts, New Jersey

US Superfund Amendments and Reauthorization Act (SARA) 311/312. SARA 313

US Toxic Substances Control Act (TSCA)

Infineum studies

International Agency for Research on Cancer

International Air Transport Association: Dangerous Goods Regulations.

International Maritime Organization: International Maritime Dangerous Goods Code

Component supplier data

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Prepared by : Infineum Product Stewardship and Regulatory Compliance

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